

# PRINTED CIRCUIT SUPPRESSION OF HIGH-FREQUENCY SPURIOUS SIGNALS

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## ABSTRACT OF THE DISCLOSURE

5 In electronic equipment, such as, for example, a personal computer printed circuit board, an arrangement for mitigating EMI, noise and other spurious signals at high frequencies. The arrangement includes a discrete capacitor coupled between an active pad and a reference pad. A conductor is coupled to the discrete capacitor and is configured to include a serpentine trace and a terminating tuning capacitance that are effectively series resonant at a predetermined frequency. In an exemplary embodiment, the serpentine trace comprises a number of substantially linear, mutually parallel segments that are joined by turns. The length and width of the serpentine trace, together with the number and spacing of linear segments, cooperates with the geometry of the tuning capacitance to determine the frequency of maximum  
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15 attenuation of spurious signals.